



MD SHAFI AHMED

SENIOR IOS DEVELOPER / ARCHITECT

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Profile

Strong Technical Architect with 15 years of IT industry experience in a variety of roles. And 4 years as iOS freelancer (total 19 years of experience). Fast and continuous learner, strong and effective Architect.

I have expertise in architectural design and development of 40 iOS apps in last 11 years. This include exposure in areas like eCommerce/Consumer, Business/Productivity, Game and Education.

Prior to iOS, Swift and Objective-C, I've been programming in C++/VC++/VB for nearly 7 years. I was passionate about developing Active-X controls (Dll and Ocx) and feature-rich Desktop applications.

I've managed multiple teams of software developers in Agile and Waterfall development environments. I design/develop softwares with the users in mind, creating applications with a useable and intuitive user interface experience. I also understand the importance of creating highly readable and easily maintainable source code. I am constantly striving to learn new technologies and look to ways to better myself in this rapidly changing industry.

TRAITS

Adaptable; good at learning new things; considerate; friendly. Think before taking action.

PERSONALITY

Works well as a leader and as part of a team. A good negotiator and problem solver. Calm and resourceful under pressure. Creative and good at establishing procedures and policy.

TOTAL EXPERIENCE:

RELEVANT IN iOS:

CURRENT DESIGNATION:

LAST EMPLOYER:

15 years (Industry) + 4 years as iOS freelancer

11 years

Technical Architect (iOS)

3Gmet (Dubai, UAE)

Skills

LANGUAGES

Swift(5.x, 4.x, 3.x, 2.x), Objective-C, C++/VC++, VB.Net, C#, VB6.0

DESIGN PATTERNS & METHODOLOGIES

MVVM, MVP, MVC (and others from Creational, Structural & Behavioural patterns)

Architectural Design

Object Oriented Design

Agile Methodology

MOBILE TECHNOLOGIES (iPhone and iPad)

Xcode 12.x, 11, 9, 8, 7, 6, 5, 4, 3, 2.0

iOS / iPhone SDK (14.x, 13, 12, 11, 10, 9...3.2, 2.0)

User Interface Design (UI)

Autolayout, Size Classes

Universal Apps (iPhone/iPad)

Combine framework for asynchronous reactive programming

Apple Frameworks

Cocoa, Cocoa-Touch

UIKit, Core and Foundation classes

Core Audio (play and record)

Core Graphics (still & animated)

Core Image - Image and Video functionality

Multithreading and Queues

Grand Central Dispatch

NSOperation

Closure, Blocks

GPS and Mapping (Core Location)

Push Notifications (APNS)

StoreKit (In-app purchases)

Persistence Storage

XCTest Framework

Quick/Nimble

Continuous Integration / Delivery (CI/CD)

SonarQube
Jenkins
SwiftLint
Backelite

BaaS and DB Frameworks
Core Data
Firebase
Realm

Internet Connectivity and Web Services
REST, SOAP API
JSON, XML

Analytics (Google, Flurry)
Version Control System (GIT based: BitBucket, Github)
Others (Cocos2d, Chipmunk physics engine)

DESKTOP TECHNOLOGIES

System side programming
Client-Server and Three-Tier applications
GUI Interfaces design and development
Object-Oriented programming

Win32 API/SDK
ActiveX (Dll, Ocx)
Hooking
Subclassing
GNU GCC Compiler
wxWidgets
Boost Framework

DATABASE TECHNOLOGIES

SQL Server(2005, 2000, 7.0)
MS Access (2003, 2000, 97)
SQLite (2.0, 3.0)

OS ENVIRONMENTS

OSX (macOS Mojave, High Sierra, Sierra, Yosemite, Mavericks, Mountain Lion, Lion, Snow Leopard, Leopard)
Windows 10, Windows 8, Windows 7, XP, 2000 Pro, Windows NT

Experience

TECHNICAL ARCHITECT

3Gmet (Dubai, UAE)

Jul 2019 - Dec 2019 (Contract Concluded)

Worked on e-commerce app for iOS, The app architecture has been straightened and redesigned to MVVM.
Working as technical architect (iOS) includes
Swift, Objective-C in Test Driven Development
Manage iOS team in a complete Agile environment.
Work between Pre-Sales and Delivery Systems.
Project estimation, technical solutions and code review.

SENIOR TECHNICAL ENGINEER

Emirates (Dubai, UAE)

Apr 2019 - Jul 2019 (Contract Concluded)

Worked at Emirates one of the best Airline company in the world in aviation domain for contractual position.
This role may include:
Enhancing with new features using Swift, Objective-C in Test Driven Development and Agile environment.
Porting old legacy code in Objective-C code into Swift 4.x version
Providing technical solutions and code review.

FREELANCE iOS ARCHITECT / SELF CONTRIBUTOR

Self (Delhi-NCR, India)

Jan 2018 - Feb 2019

Worked in the capacity of Technical Architect (iOS) and self contributor. Architected 2 iOS apps and worked as self contributor for one iOS app for the clients based in Bangalore, Delhi (India) and USA. These are Health/Fitness, eCommerce and logo designing apps.

TECHNICAL ARCHITECT

Appster LLP (Gurgaon, Delhi-NCR, India)

Feb 2017 - Oct 2017

Worked in the capacity of Technical Architect (iOS). Managed 4 iOS teams each having 10 people in it. In a complete Agile environment I was working between Pre-Sales and Delivery Systems. My roles and responsibilities include project estimation, software architecture, providing technical solutions and code review.

HEAD MOBILITY

BlueGape (Gurgaon, Delhi-NCR, India)

Jul 2015 - Mar 2016

I design the architecture the Murmur app that soon become one of the largest news & entertainment app in India. I worked as iOS Architect, code reviewer and head of the team. Unfortunately this IT startup has been shutdown in March 2016.

SENIOR TEAM LEADER

Pulp Strategy Communications (New Delhi, India)

Nov 2014 - June 2015

In November 2014 I decided to quit working as iOS freelancer. I come back to regular job and joined Pulp Strategy as Senior Team Lead (iOS). By the time my our iOS team grows from 2 to 8 people. While I designed and architect 3 iOS applications and contributed as individual coder, I continued managing and mentoring them technically. Did little code review and and make them familiar with Agile environment.

FREELANCE EXPERIENCE

Self Employed (New Delhi, India)

Mar 2011 - Oct 2014

I quit Icreon Communications and started working as freelance iOS developer/team leader and architect till October 2014. In this period I worked with a number of clients (US, UK, Canada, Australia) for their iOS (iPhone, iPad) apps. I built a team of 3 people to work together however I was leading my team. I also taken care of writing proposals, submitted bids, interacted with clients to discuss their requirements. I've mentor my team technically through and design the architecture of more than 15 apps and worked as self contributor.

SENIOR TECH LEAD

Icreon Communications (Noida, Delhi-NCR, India)

Feb 2007 - Oct 2010

I joined as Team Leader to work on VC++/C++ projects for media and eCommerce domains. Later in late 2008 I switched from Windows to Macintosh platform to work recently released iPhone SDK by Apple. Besides 3 Windows Desktop and Cross-platform Apps I've worked on 7 iPhone/iPad applications.

Applications I've worked here are:

Mobile Applications: -

NextNote: This application is developed for iPad to eliminate physical paper sheets. Some of the features of this application are: Free-hand drawing with geometric shape (line, rectangle, ellipse, arbitrary shapes etc.) with different types of brush, colour etc, can be saved as pdf, image files.

AIP: This is typical bidding client for e-commerce. Several iPads can be connected using this application to a auction web server. This application interacts frequently with the server and collects bid details from that server and enable end user to view, search items and can play LIVE bids). This application ensure a very fast communications with server using Socket programming.

Infinite Banking Concept Game: The Infinite Banking Concept game spans a four year period of time where five methods of financing a car are compared.

MyiBunny: This application is for who want their pets inside pocket. This is fully based on accelerometer and Core Animation.

Carom: It is like known Carom game for iPhone. In this game application Cocos2d/Chipmunk is used for its basic physics.

Coins: In this game application Cocos2d/Chipmunk is used for its basic physics. The basic idea is to hit the goal using any one of the balls (there are three) by intersecting the rest two. There are 10 levels with different type of obstacles.

Cougar: This is a party application. Some of the features cougar may have are: Security lock, Timer, Scrollview picture display with embedded audio and quotations for each photo. Roar sound plays when gesture is mad while screen facing outward direction etc.

Desktop projects:-

Mira Group: Worked for developing their project Mira an online repository project. I actively used VC++/C++/Boost/XDelta/wxWidgets/CodeBlocks/MINGC to develop Cross Platform Plug-in Framework.

Cockpit: It fully supports the process of video-content production, management and distribution. With The Cockpit one can easily create, manage and publish video blogs, video podcasts, video RSS feeds, newscasts etc. Cockpit can run on Windows, Linux, OS X.

GraCe: This tool is developed for providing high end graphics for the wxWidgets controls. As wxWidgets doesn't support controls having sophisticated graphical controls, GraCe is written to provide a wrapper over the native controls wxWidgets can supports. I use VC++/C++/wxWidgets/CodeBlocks/MINGC in developing this app.

SYSTEMS EXECUTIVE

Scicom Technologies (Noida, Delhi-NCR, India)

May 2006 - Feb 2007

As a Systems Executive I've worked for Halliburton for their Oil and Gas Explorations domain based application. I was working with a team of 6 developers/mentors, as an individual contributor in VB/VB.Net projects and some ActiveX tools (ocx, dll) developed in VC++/C++ in Waterfall methodology environment.

The projects I've contributed here are:

HIP-SUMMIT: A big project based on Oil and Gas Explorations. It includes the tools like C#, VB.Net, VC++/Win32 API/SDK, VB, XML and MS Access).

Role and Responsibility:

VC++/VB/Vb.Net/C# Developer - responsible for coding/debugging software with team members.

Hazmat Reports: Generate reports in .pdf and .doc format in customised templates.

Role and Responsibility:

VC++/Win32 API/SDK /VB Developer; Designer - responsible for coding/debugging software with team.

EA Migration: A complete migration tools for data migration needed for HIP-SUMMIT project being used in Europe and Africa).

Role and Responsibility:

VB, VC++/Win32 API/SDK Developer; Designer - responsible for coding/debugging software with team.

LEAD SOFTWARE DEVELOPER

Softbit Technologies (P)Ltd (Delhi-NCR, India)

Apr 2005 - May 2006

Worked on a project from scratch for heavy AC motors

SoftMotor: Its a complete 2D/3D heavy Ac motor designing software).

Role and Responsibility:

VC++/Win32 API/ SDK, VB Developer; Designer; Debugger; responsible for coding, designing, debugging and testing of the software single handedly.

SENIOR SOFTWARE DEVELOPER

Rahas Net (Delhi-NCR, India)

Jan 2004 - Apr 2005

Worked on few business/commercial projects for retails stores and real state.

MLMPack: A project based on multilevel marketing.

Role and Responsibility:

VB, SQL Server Developer; Designer - responsible for coding and functional testing the modules within team.

IPack: A high-end complete inventory management control system, Invoice, Stock management for small and medium level organisations.

Role and Responsibility:

VC++/Win32 API/ SDK Developer; VB Developer; SQL Server Developer - responsible for coding, guiding, integrating and functional testing the modules.

RealEstate: A application for property dealers.

Role and Responsibility: VB, MS Access Developer; designer - worked as a team member.

SOFTWARE DEVELOPER

Softcore Infosolutions (P)Ltd (Delhi-NCR, India)

Jan 2001 - Nov 2003

Worked on few inventory management softwares for retails stores

Inventory Management System:

Role: VB, SQL Server Developer - Responsible for coding and testing the software.

Invoice System:

Role: VB, MS Access Developer - Responsible for coding and test the software.

Sales System for retail stores:

Role: VB, MS Access Developer - work as a team member.

Drawing Management System: (client was Indian Oil Corporation, Head Office IOCL

Pipelines Division A - I, Udhog Marg, Sector - I, Noida - 201301.

Role: VB Developer VB, MS Access - Responsible for coding and designing the application.

Sample Apps

Some of my iPhone/iPad apps live on App Store. (out of around 40 apps live on App Store)

Emirates

This is the app for booking flights and manage trips on the go. Search for flights to over 150 destinations around the world and explore the world your way with the personalised Emirates app for iPhone and Apple Watch.

<https://apps.apple.com/app/emirates/id935307149?ign-mpt=uo%3D4>

Benefit Wellness

It's a wellness and rewards platform for an organisation to customize a private wellness ecosystem. The app tracks activity using the Apple Health app and client's wearable fitness devices partners. One can book his / her session to get advice from experts on how to enjoy a healthy lifestyle.

<https://itunes.apple.com/in/app/benefit-wellness/id1197192728?mt=8>

The Bookie App

It's an app for students. They can buy and sell used textbooks on competitive price. They can browse, search those books are being sold in campus anytime. For making selling and buying fast and easy, credit card information can be saved within the app.

<https://itunes.apple.com/us/app/the-bookie-app/id1217762951?mt=8>

TradeClique - Home & Garden

Basically this app helps to find a Tradie for both homeowners and business's. One can create own network to get a personalised search based on recommendation from he/she knows. Whether looking for a plumber to fix a leaky tap, an electrician to re-wire some lights or a builder to construct a home, the app connect with a Tradie recommended by friends.

<https://itunes.apple.com/us/app/tradeclique-home-garden/id1215356235?mt=8>

Beauty Junkie

Beauty Junkie is the one stop online destination for all the beauty needs.

Choose from a selection of beauty services from the categories of hair, makeup, spray tanning, nails, brows, lashes, cosmetic tattooing, aesthetics, and barbering. View the profiles of many local beauty pros, including a portfolio of their work, information about their business, experience and expertise, pricing and availability. Simply find, book and pay for your beauty pro of choice based on your very own personal requirements.

<https://itunes.apple.com/au/app/beauty-junkie/id1219169233?mt=8>

ASOS

The ASOS app for ASOS.com. It provides everything people love about fashion and major style advice for 20-somethings. One can shop 850+ brands, can stay up to date with all the stuff by sorting feature in saved items. It provides uber-techy Style Match on the app to search for dream looks via camera, photos or screenshots.

<https://itunes.apple.com/gb/app/asos/id457876088>

Hauler

Hauler is Australia's fastest growing digital freight management platform that makes the experience between truck drivers and customers better for everyone. Hauler uses sophisticated smart technology and algorithms that seamlessly connect high quality verified drivers with customers seeking road freight transport services.

<https://itunes.apple.com/au/app/hauler/id1209364226?mt=8>

Instappy: It's a leading cloud-based app creation platform. I headed the team as Senior Team Leader for iOS client app part. So this app to create iOS apps for e-commerce, catalogue, category/subcategory and brochure based app for small to medium level companies.

<http://www.instappy.com>

Mr Porter: This is the new men's online shopping app for iPhone and iPad. Browse the latest designer shoes, clothing and accessories from brands such as Alexander McQueen, Givenchy, Lanvin, J.Crew, Church's and Common Projects.

<https://itunes.apple.com/us/app/mr-porter/id481673241?mt=8>

Trails Of India: Trails of India is a one of its kind app for bike trails that brings together the biker community and gives them a personal space to share their journeys and experiences, while discussing about the latest developments in the motor-biking world. It is an app that will enable bikers to record and save every bike trail they create. It also offers a platform to discuss everything right from new bikes to recently launched gadgets, and other technological developments to improve your bike's performance or to modify and redesign it.

<https://itunes.apple.com/us/app/trails-of-india/id1022351546?mt=8>

Rescue'em: This is a 2D game for iPhone created with Cocos2d-x (C++). This game is created using Objective-C++ and Cocos2d-x (C++). It's a score based addictive continuous gameplay with dodge bombs, rotten eggs and poisonous mushrooms, and dive to fetch candies and surprise gift boxes to gain advantage over Brutus.

<https://itunes.apple.com/us/app/rescue-em/id973140058?mt=8>

Kidzloop for Parents: Kidzloop is a great way for parents to Plan, Capture and Share their kids memories with their loved ones.

<https://itunes.apple.com/in/app/kidzloop/id646099550?mt=8>

Cute Arabic Alphabet: Cute Arabic Alphabet is a fun and easy way to learn and write the Arabic letters and numbers. One unique feature of this app can be found in the program's ability to not only teach you how to write each Arabic letter and number; it also corrects you when you make a mistake. Likewise, when you correctly write a letter or number; the app provides encouragement, and motivates you to learn even more.

<http://itunes.apple.com/us/app/cute-arabic-alphabet/id520578305?mt=8&ign-mpt=uo%3D2>

Astroloquiz: It provides a fun learning experience based around the 12 signs of the zodiac. Over 90 definitions of personalities are presented in a way that young learners and old alike can easily understand the meaning of personality adjectives.

<https://itunes.apple.com/us/app/astroloquiz-free/id920302644?mt=8>

Photo Frame | Digital Album for iPad: This app makes iPad a digital photo frame that gives all features of the traditional photo frame. It allows to embed various frames, play slide show, clock, captures framed photo and share with friends.

<https://itunes.apple.com/us/app/photo-frame-digital-album-for-ipad/id434382263?mt=8>

Sherwood Forest Archery: This a classic archery game for iPhone based on Accelerometer; Quartz-2D, Core Animation are the main technologies in game app.

<https://itunes.apple.com/in/app/sherwood-forest-archery-lite/id368402827?mt=8>

TOOLS DEVELOPED INDIVIDUALLY

CvProc (.dll): An ActiveX dll that can be used to monitor all the processes running on the current system. Its prime use is to hide process from System/Task Manager. This tool can be used on any Windows version of OS including Windows 2000 and XP.

CvUtil (.dll): An ActiveX dll that can be used to resize, move(frame, dock-able, layered) any VB control at runtime.

Techniques used: Hooking, Subclassing.

RcBarcode (.ocx): Barcode control based on UPC (Universal Product Code) and EAN (International Article Numbering Association).

Techniques used: Subclassing.

RcServMan (.dll): This dll provides control (check status, stop, start) over services running in the Operating System, one like 'Service Manager' utility in Window's Control Panel.

Techniques used: Hooking.

RcTitlebar (.dll): Can be used to replace Visual Basic windows Titlebar to several highly customised GUI based Titlebar including one in MAC OS.

Techniques used: Hooking, Subclassing.

RcGUIFrameWork (.dll): A very high end GUI tool to provide several customisation for GUI look to Windows Titlebar, Commandbutton, Checkbox, Optionbox, Editbox, Combobox, Listbox etc. and perform several drawings, scaled Textoutput, colour parsing etc.

Techniques used: Hooking, Subclassing, Superclassing.

CvExcp (.dll): Using this dll a VB programmers can safely trap almost any type of GPF (General Protection Fault/ Failure) or memory exception/violation in VB. This type of error trapping is not supported in VB without using third party product.

CvPView (.ocx): This tool can be used to view certain format of pictures (.bmp, gif, jpg etc.) with zooming and scaling, scrolling facilities.

Education

ACADEMIC QUALIFICATION

ALIGARH MUSLIM UNIVERSITY

Aligarh, U.P — **B.Sc(Statistics)**, 1999

PROFESSIONAL QUALIFICATION

TATA INFOTECH LTD.

Greater Kailash - II, New Delhi - 48 — **MDIT (Master Diploma in Information Technology - 3 years)**, 2001

Personal Details

Read and write English, Urdu, Hindi and read Arabic and Persian.

Father's Name: Late Md. Razi Ahmed

Date of Birth: **03.03.1975**

Sex: Male

Marital Status: Married

Nationality: **Indian**

Present Location: **New Delhi - India**

Home Location: **New Delhi - India**

Other Interest and activities: Literature, Swimming, Cricket.

Md. Shafi Ahmed

Date: 27-05-2021